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HEAT PUMPS FOR SUSTAINABLE CITIES



QVANTUM QA - HYDRAULIC SCHEMATICS

Qvantum Hydraulic Schematics

QHS - QA-9/-15 + QH-175_2640-F

D100018

QVANTUM QA - HYDRAULIC SCHEMATICS

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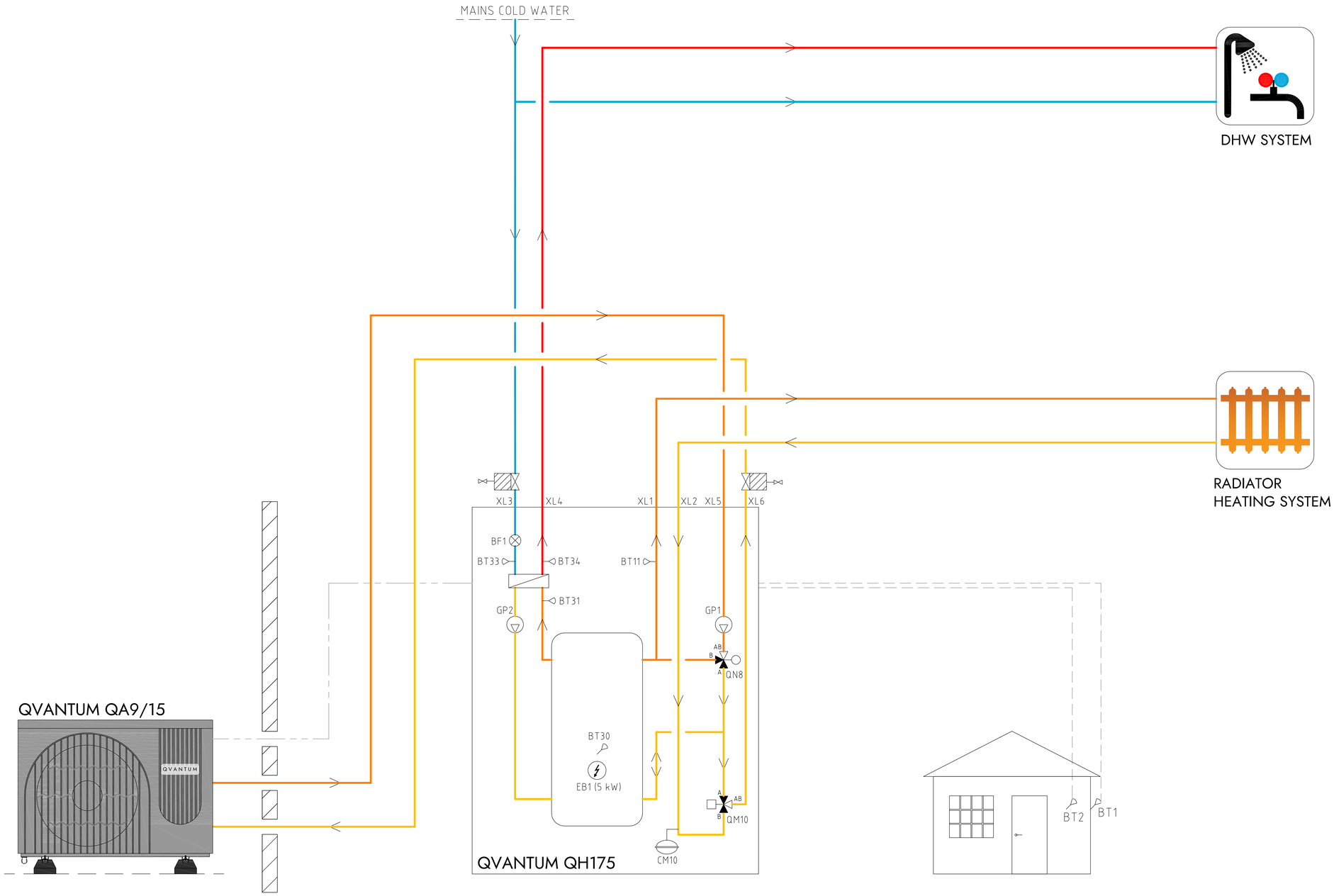
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QVANTUM QA9/15 & QH175

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Information

QA9/15 & QH175, heating & hot water



COMPONENT DESIGNATIONS

QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

- This hydraulic schematic is a non-binding, schematic proposal for the hydraulic integration of the QA & QH units.
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- The representation of safety devices is not complete.
- Fittings and safety devices outside the QA & QH units area are not included and must be provided and installed on site.

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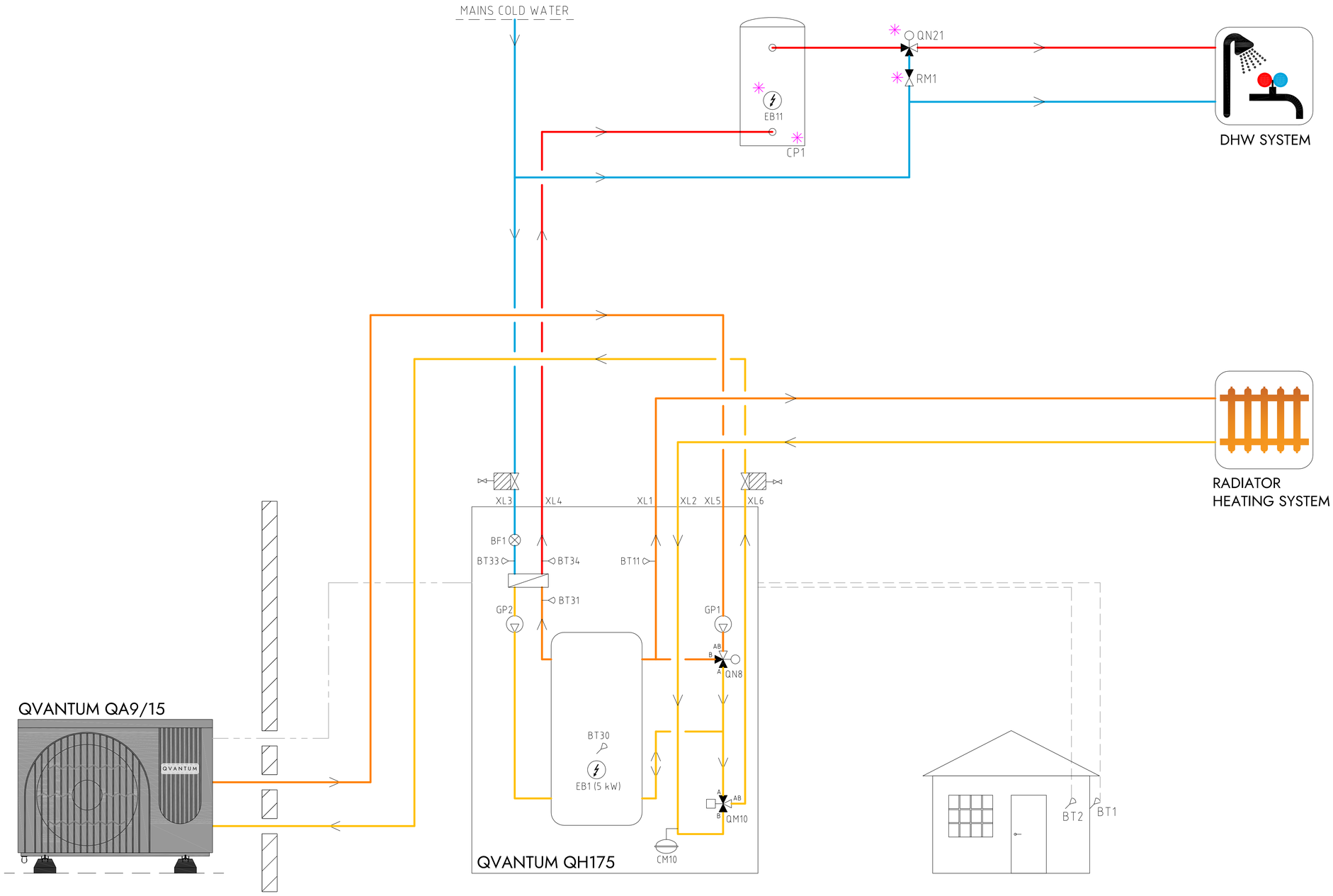
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Information

QA9/15 & QH175, heating & hot water
with external hot water tank



COMPONENT DESIGNATIONS

QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
RM1	Non return valve hot water
QN21	Thermostatic mixing valve (35-60°C)
CP1	DHW cylinder
EB11	Immersion heater
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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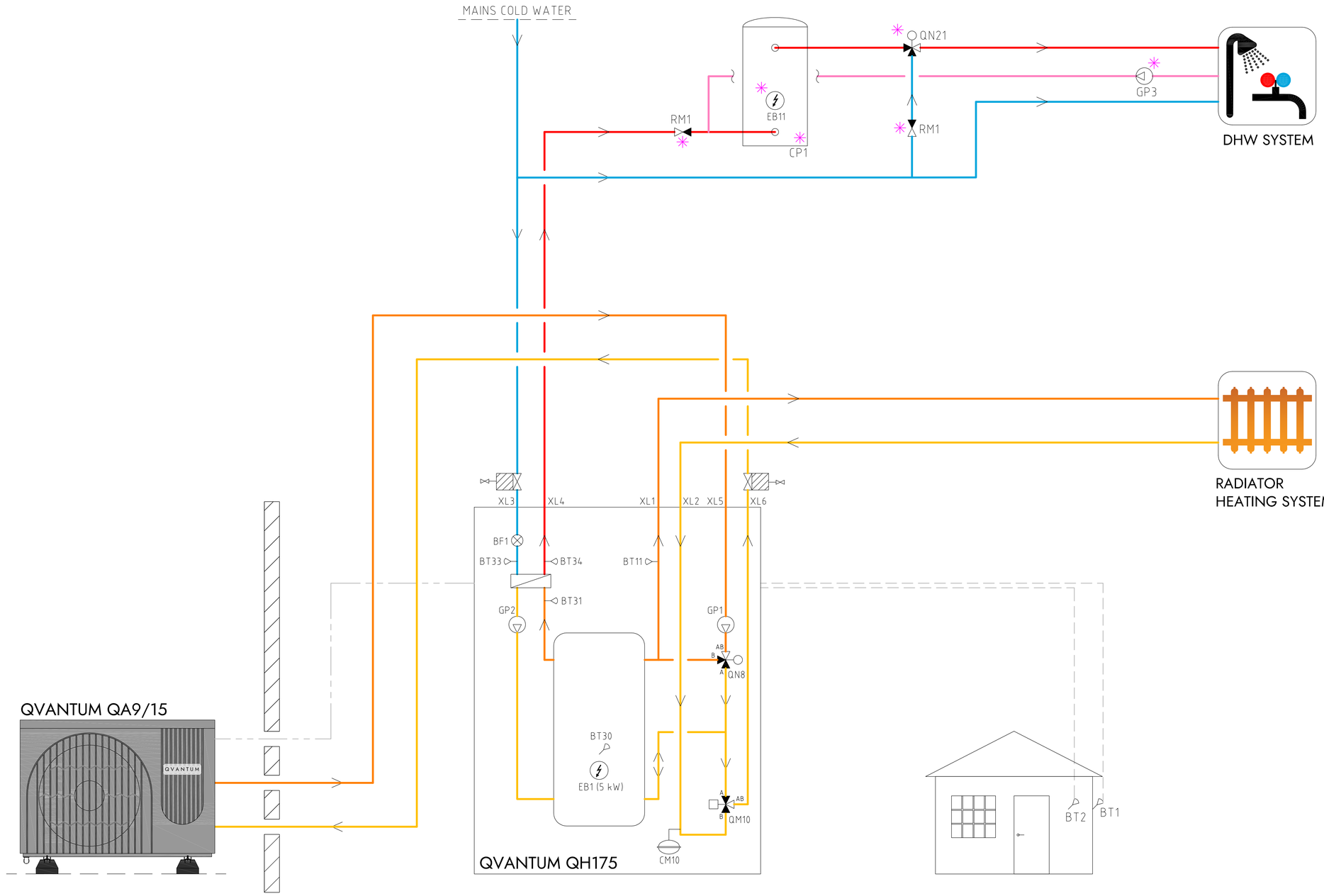
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Information

QA9/15 & QH175, heating & hot water with external hot water tank & hot water circulation



COMPONENT DESIGNATIONS

QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
QN21	Thermostatic mixing valve (35-60°C)
GP3	DHW circulation pump
CP1	DHW cylinder
EB11	Immersion heater
RM1	Non return valve hot water
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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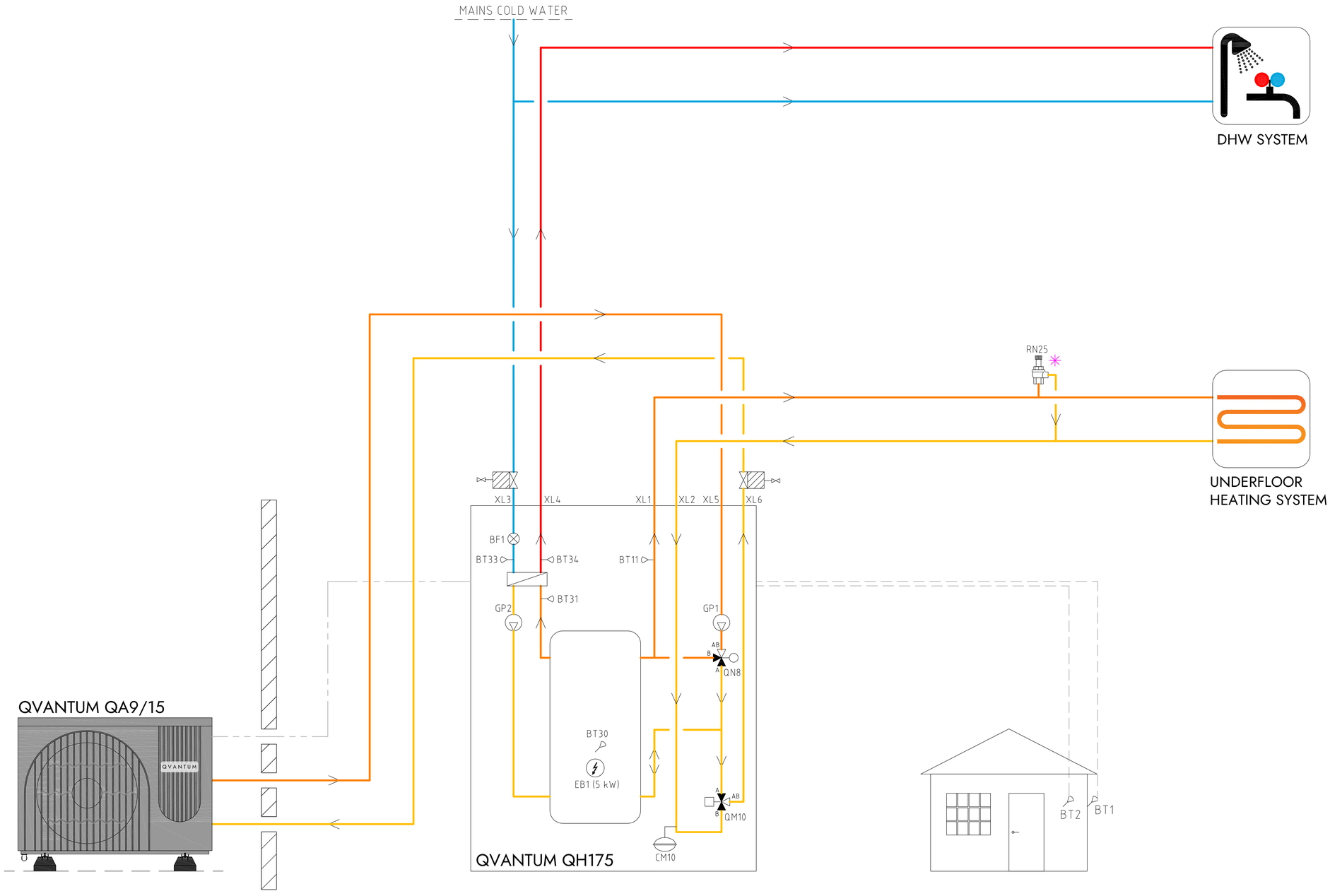
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Information

QA9/15 & QH175, Underfloor heating & hot water



COMPONENT DESIGNATIONS

QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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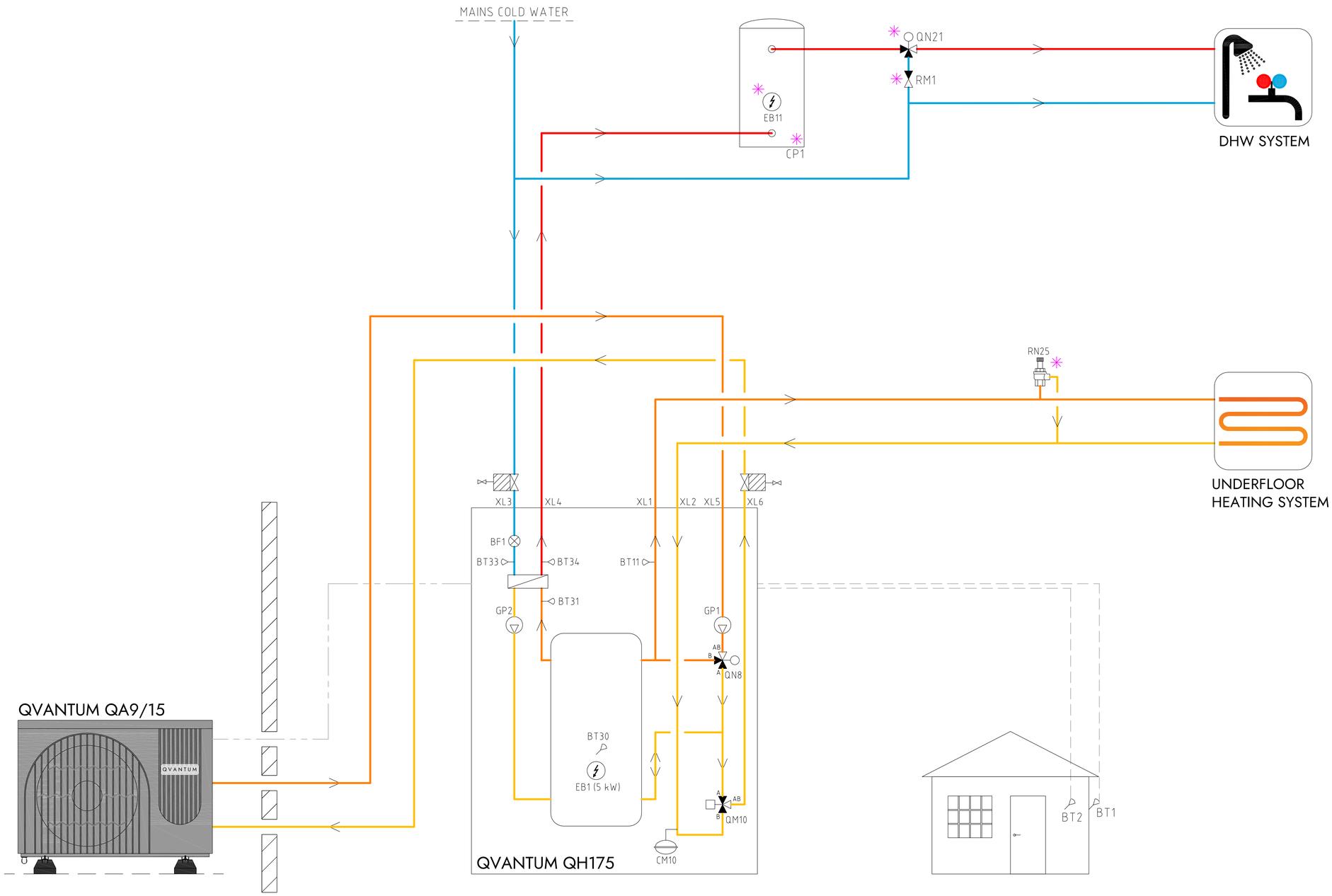
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Information

QA9/15 & QH175, Underfloor heating
& hot water with external hot water tank



COMPONENT DESIGNATIONS

QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
QN21	Thermostatic mixing valve (35-60°C)
CP1	DHW cylinder
RM1	Non return valve hot water
EB11	Immersion heater
RN25	Overflow valve
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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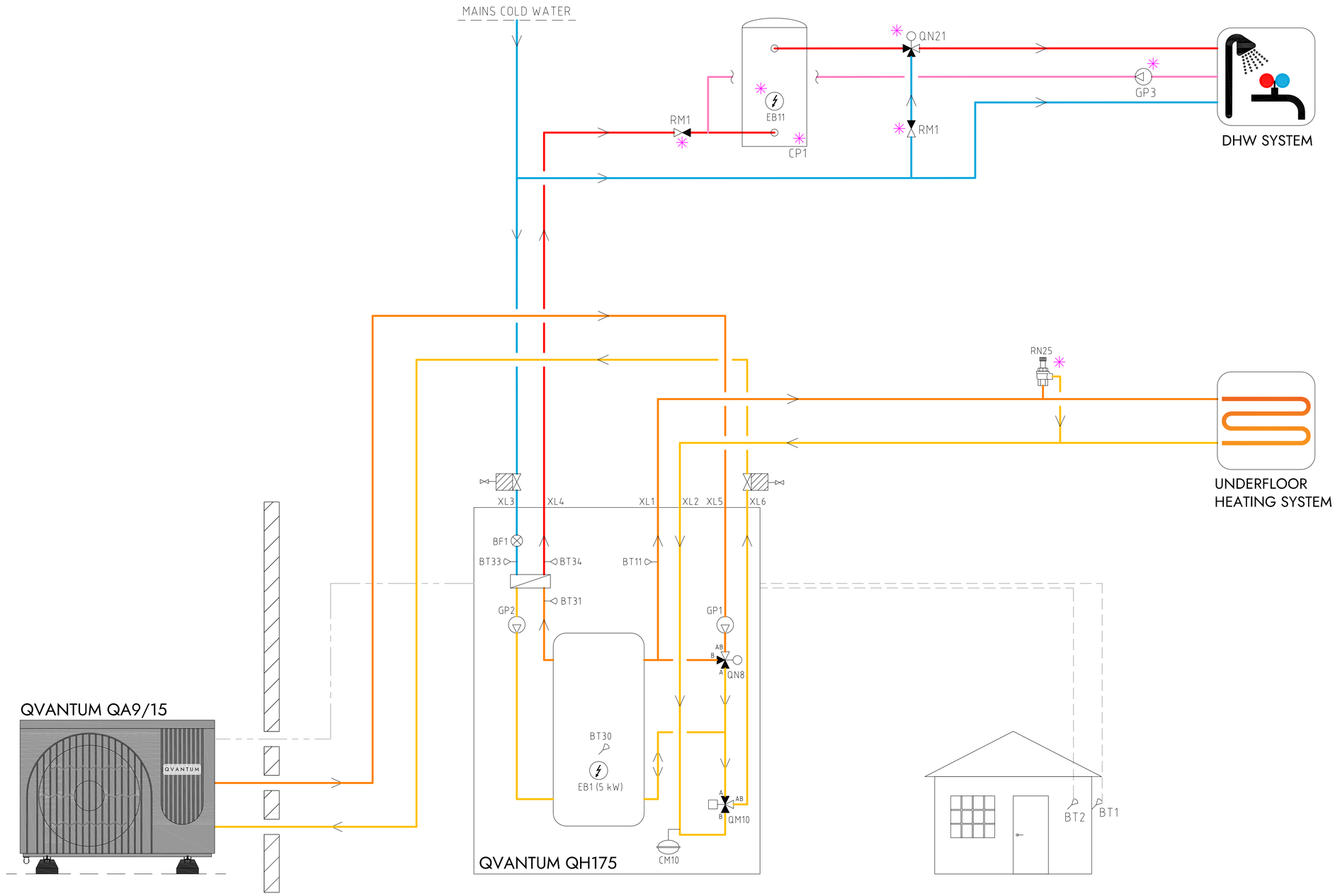
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Information

QA9/15 & QH175, Underfloor heating
& hot water with external hot water tank
& hot water circulation



COMPONENT DESIGNATIONS

QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
QN21	Thermostatic mixing valve (35-60°C)
GP3	DHW circulation pump
CP1	DHW cylinder
EB11	Immersion heater
RM1	Non return valve hot water
RN25	Overflow valve
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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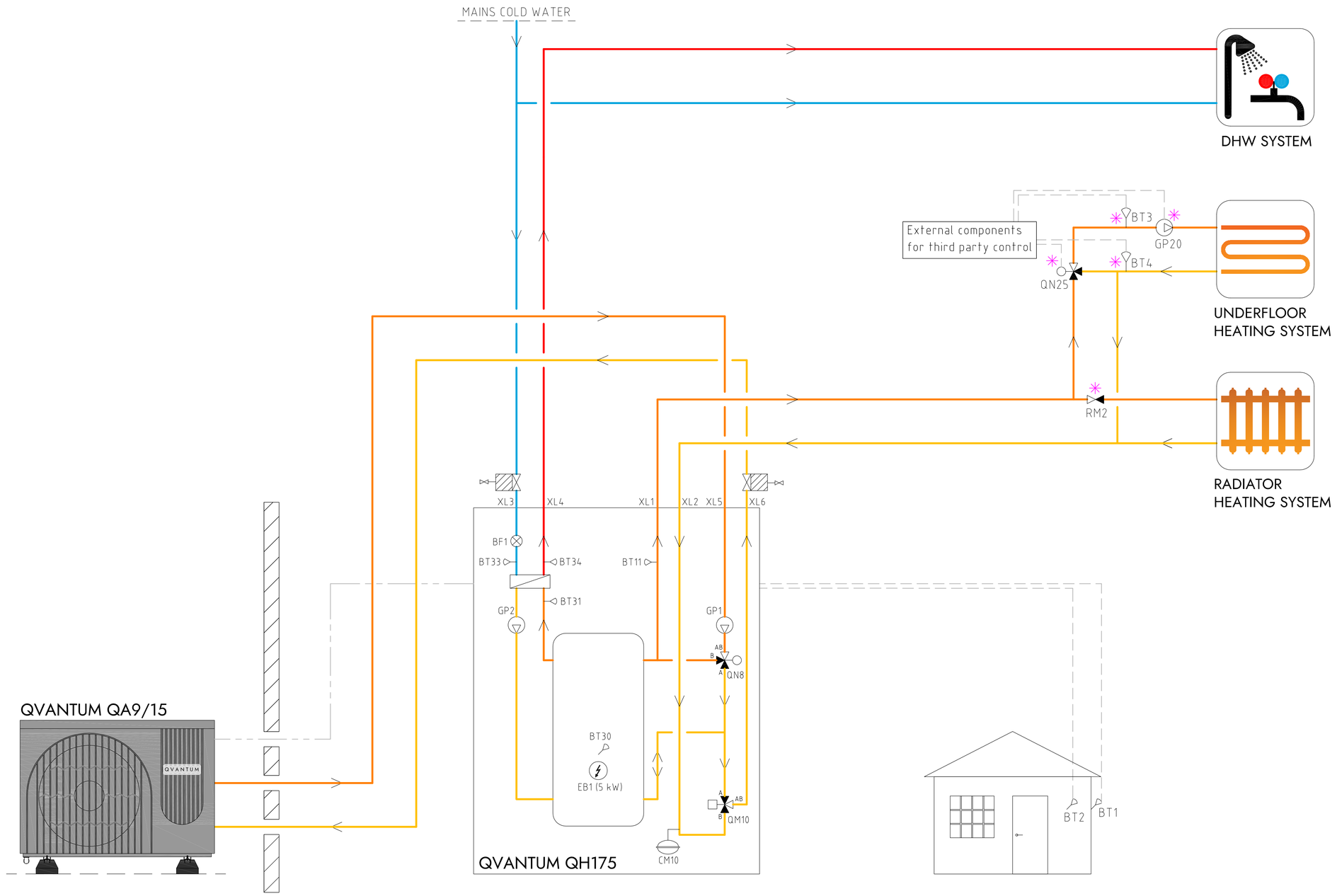
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Information

QA9/15 & QH175, heating & hot water, second heating system



COMPONENT DESIGNATIONS

QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
QN25	Shunt valve, sec heat system
GP20	Circulation pump, sec heat system
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
RM2	Non return valve heat system
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

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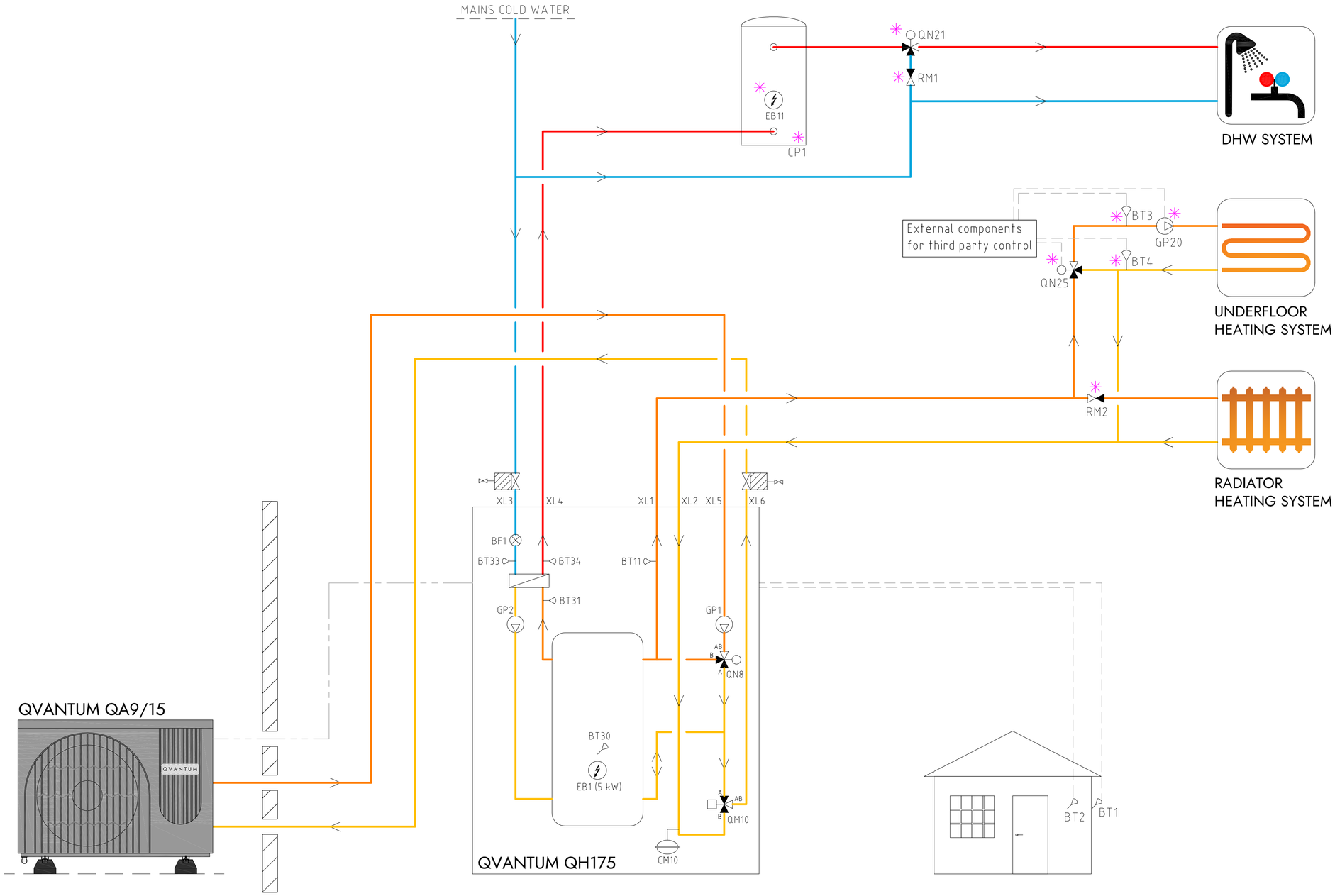
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Information

QA9/15 & QH175, heating & hot water with external hot water tank, second heating system



COMPONENT DESIGNATIONS

QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
QN21	Thermostatic mixing valve (35-60°C)
CP1	DHW cylinder
EB11	Immersion heater
RM1	Non return valve hot water
QN25	Shunt valve, sec heat system
GP20	Circulation pump, sec heat system
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
RM2	Non return valve heat system
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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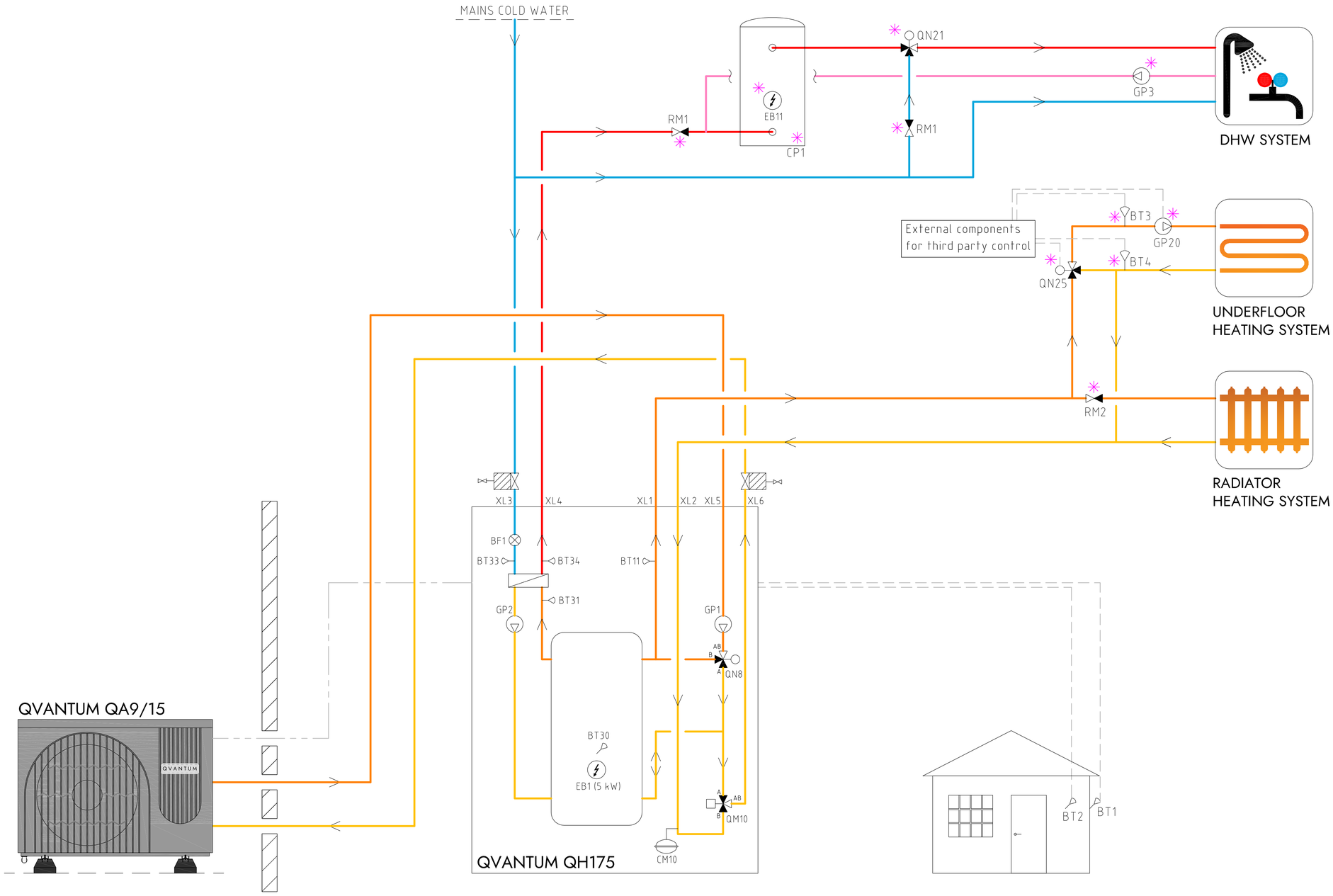
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Information

QA9/15 & QH175, heating & hot water with external hot water tank & hot water circulation, second heating system



COMPONENT DESIGNATIONS

QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
QN21	Thermostatic mixing valve (35-60°C)
GP3	DHW circulation pump
CP1	DHW cylinder
EB11	Immersion heater
RM1	Non return valve hot water
QN25	Shunt valve, sec heat system
GP20	Circulation pump, sec heat system
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
RM2	Non return valve heat system
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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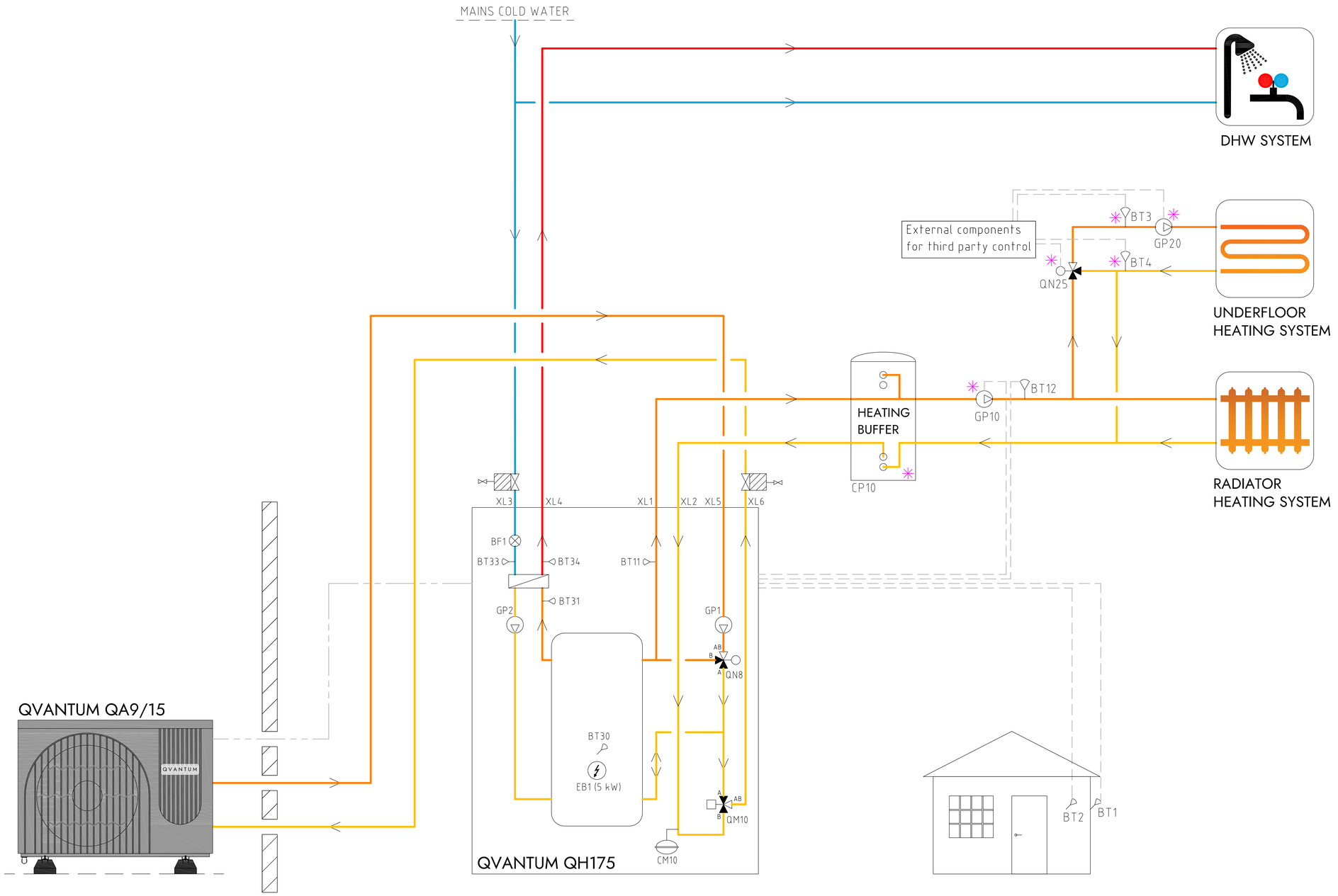
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Information

QA9/15 & QH175, heating & hot water, external circulation pump, second heating system



COMPONENT DESIGNATIONS

QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
BT12	External flow temperature
GP10	External circulation pump, heating
CP10	Heating buffer
QN25	Shunt valve, sec heat system
GP20	Circulation pump, sec heat system
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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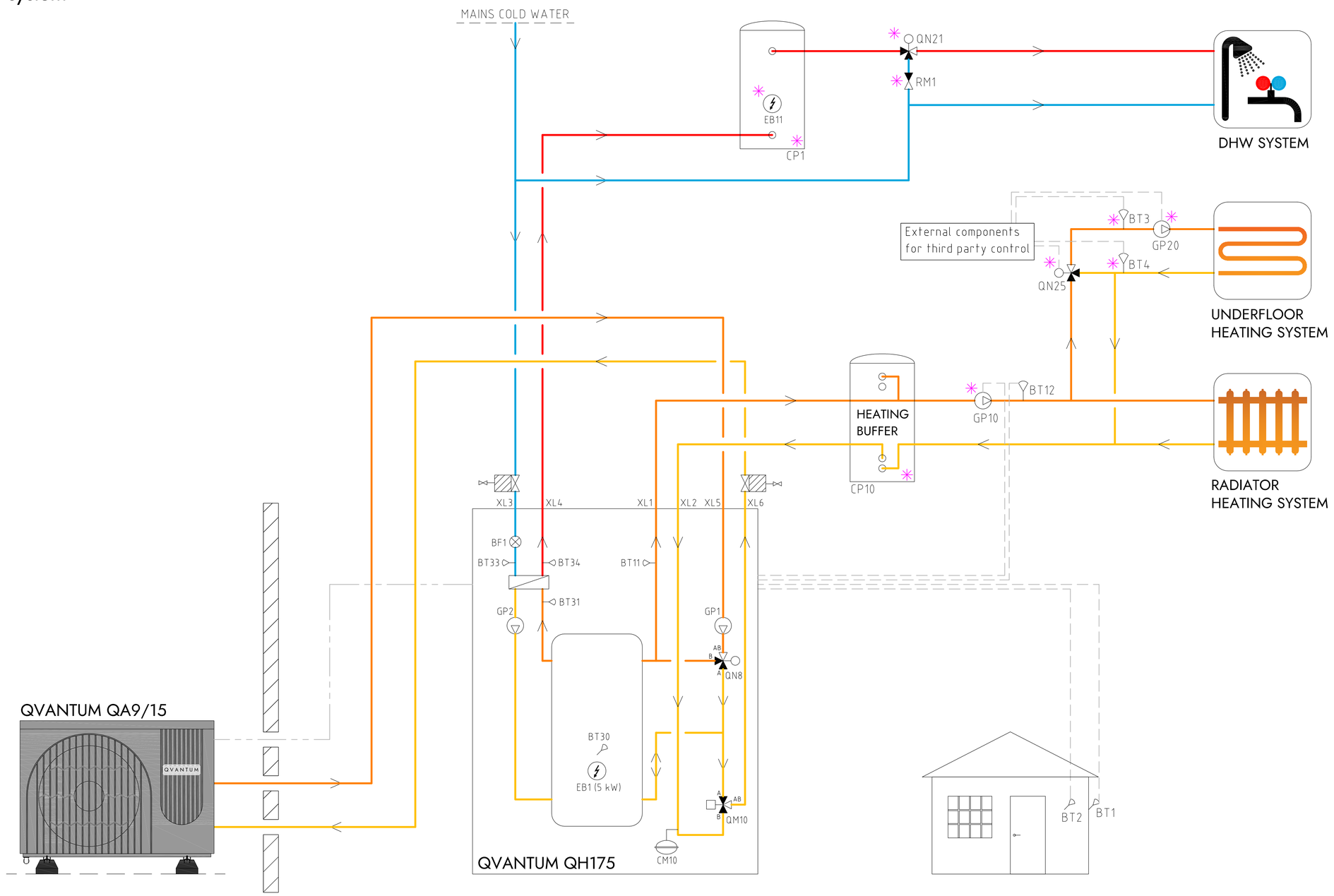
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Information

QA9/15 & QH175, heating & hot water with external hot water tank, external circulation pump, second heating system



COMPONENT DESIGNATIONS

QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
QN21	Thermostatic mixing valve (35-60°C)
CP1	DHW cylinder
EB11	Immersion heater
RM1	Non return valve hot water
BT12	External flow temperature
GP10	External circulation pump, heating
CP10	Heating buffer
QN25	Shunt valve, sec heat system
GP20	Circulation pump, sec heat system
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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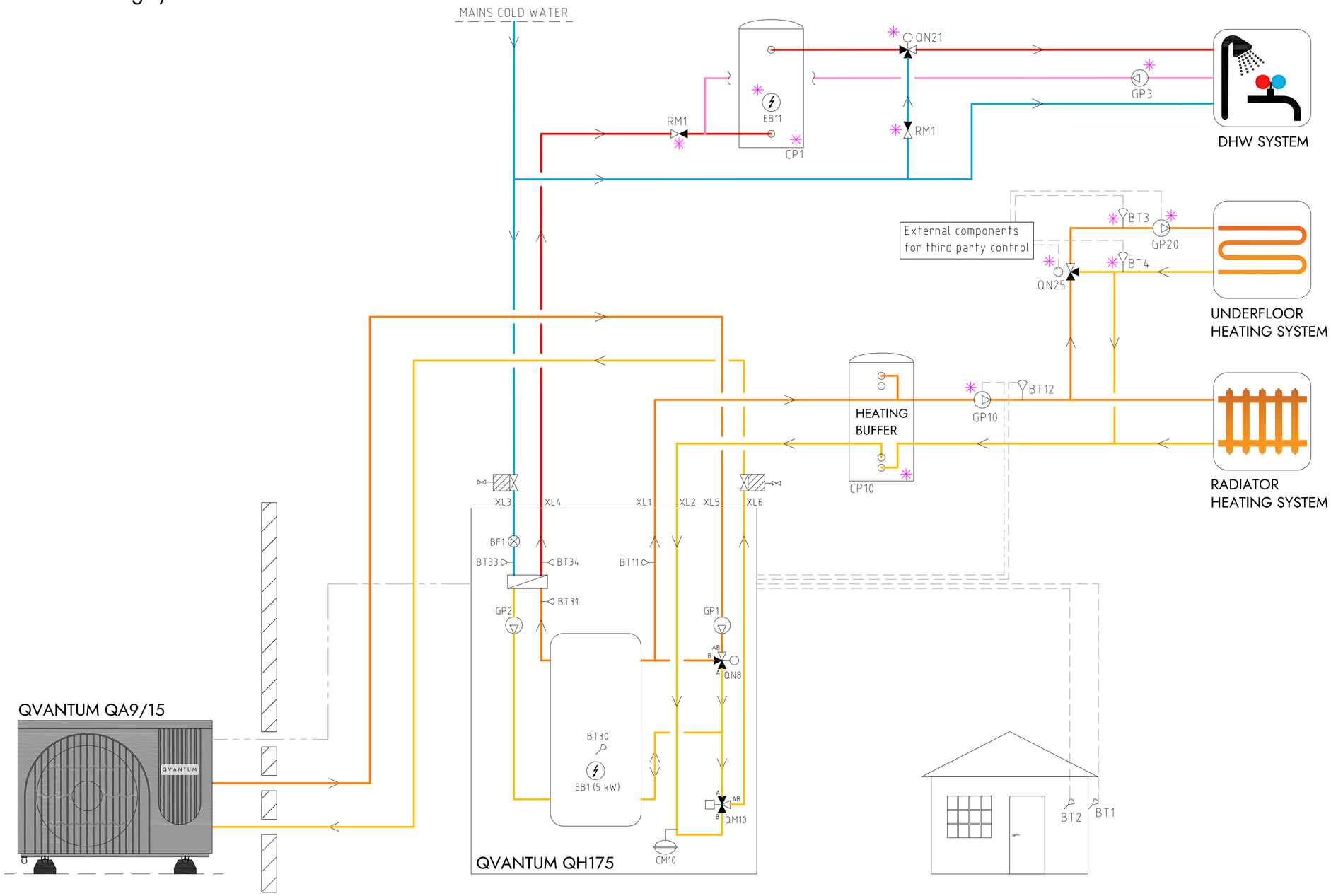
QVANTUM ENERGI AB
Ji-te gatan 7, 265 38 Åstorp

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PLO: 2026-10-01 10:30 G:\QVANTUM\01 INTERN\10 RITNINGAR\DOCKANINGSPRINCIPER\QVANTUM QA\RITNING\QH175 - QA-9_-15 + QH-175_2619-E (ORG).DWG JONAS

Information

QA9/15 & QH175, heating & hot water with external hot water tank & hot water circulation, external circulation pump, second heating system



COMPONENT DESIGNATIONS

QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
QN21	Thermostatic mixing valve (35-60°C)
GP3	DHW circulation pump
CP1	DHW cylinder
EB11	Immersion heater
RM1	Non return valve hot water
BT12	External flow temperature
GP10	External circulation pump, heating
CP10	Heating buffer
QN25	Shunt valve, sec heat system
GP20	Circulation pump, sec heat system
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

- This hydraulic schematic is a non-binding, schematic proposal for the hydraulic integration of the QA & QH units.
- This hydraulic schematic does not replace professional planning and implementation, all applicable laws, standards, and regulations must be adhered to.
- The representation of safety devices is not complete.
- Fittings and safety devices outside the QA & QH units area are not included and must be provided and installed on site.

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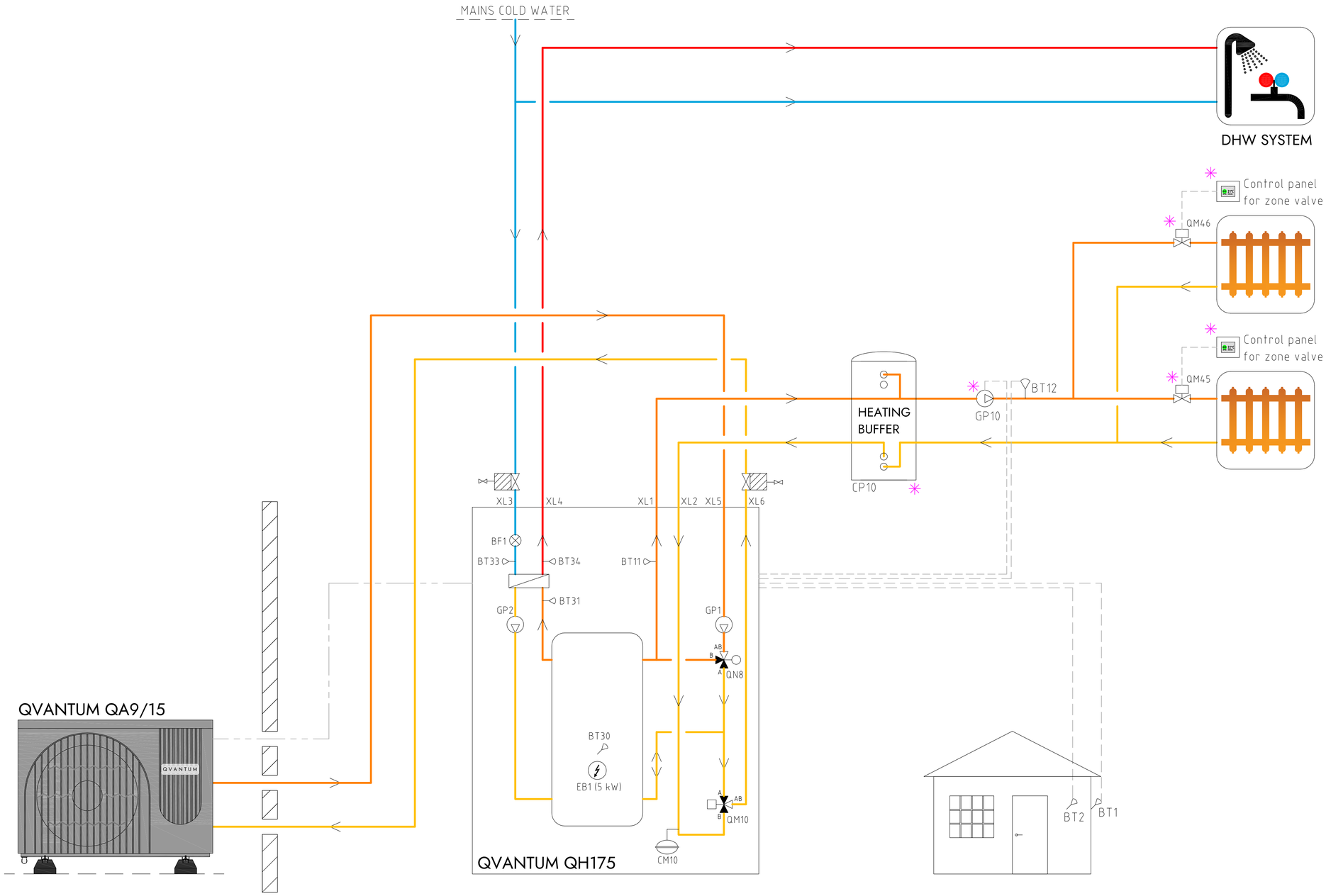
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Information

QA9/15 & QH175, heating & hot water, external circulation pump, individual zone control



COMPONENT DESIGNATIONS

QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
BT12	External flow temperature
GP10	External circulation pump, heating
CP10	Heating buffer
QM45	Zone valve
QM46	Zone valve
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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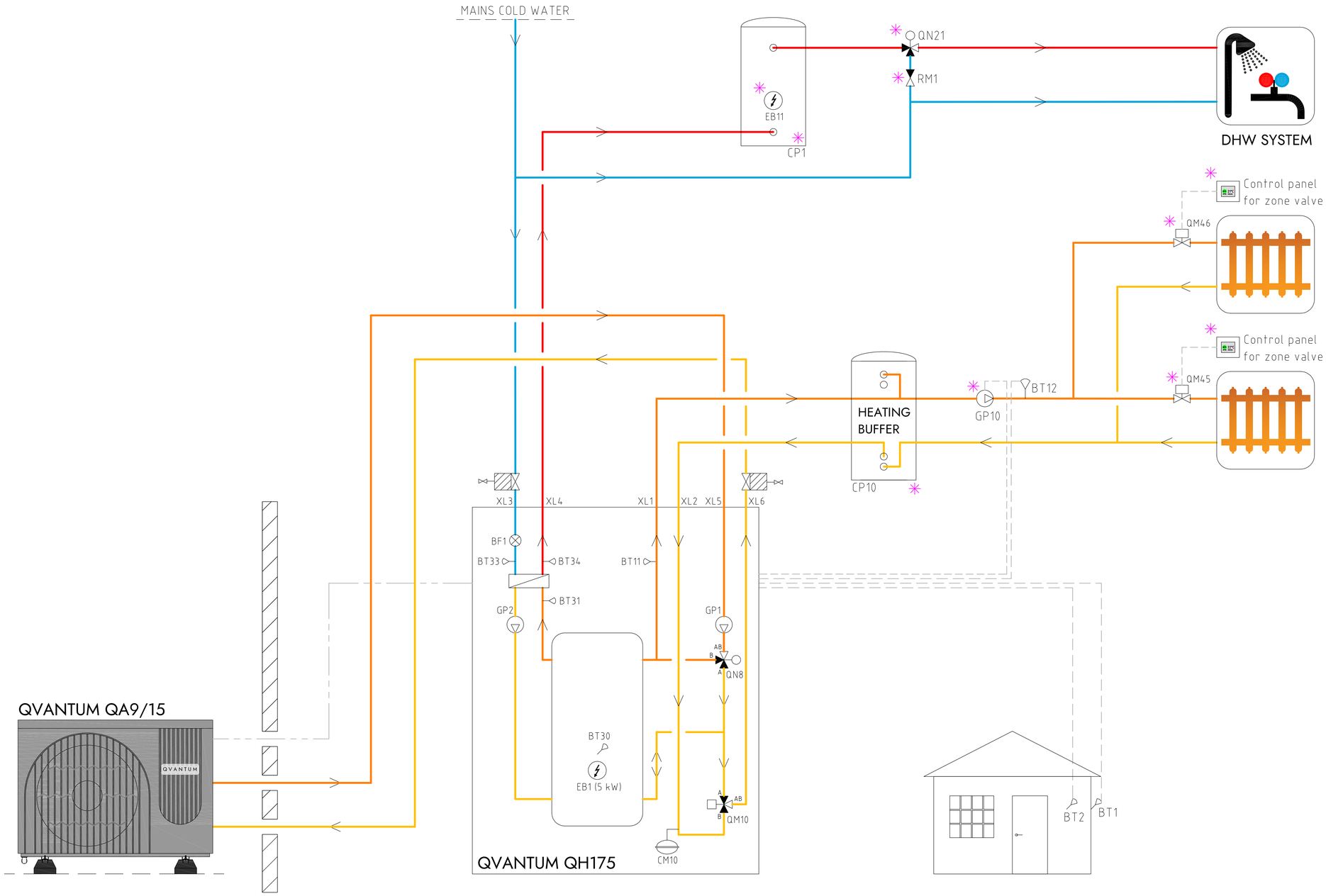
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Information

QA9/15 & QH175, heating & hot water with external hot water tank, external circulation pump, individual zone control



COMPONENT DESIGNATIONS

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QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
QN21	Thermostatic mixing valve (35-60°C)
CP1	DHW cylinder
EB11	Immersion heater
RM1	Non return valve hot water
BT12	External flow temperature
GP10	External circulation pump, heating
CP10	Heating buffer
QM45	Zone valve
QM46	Zone valve
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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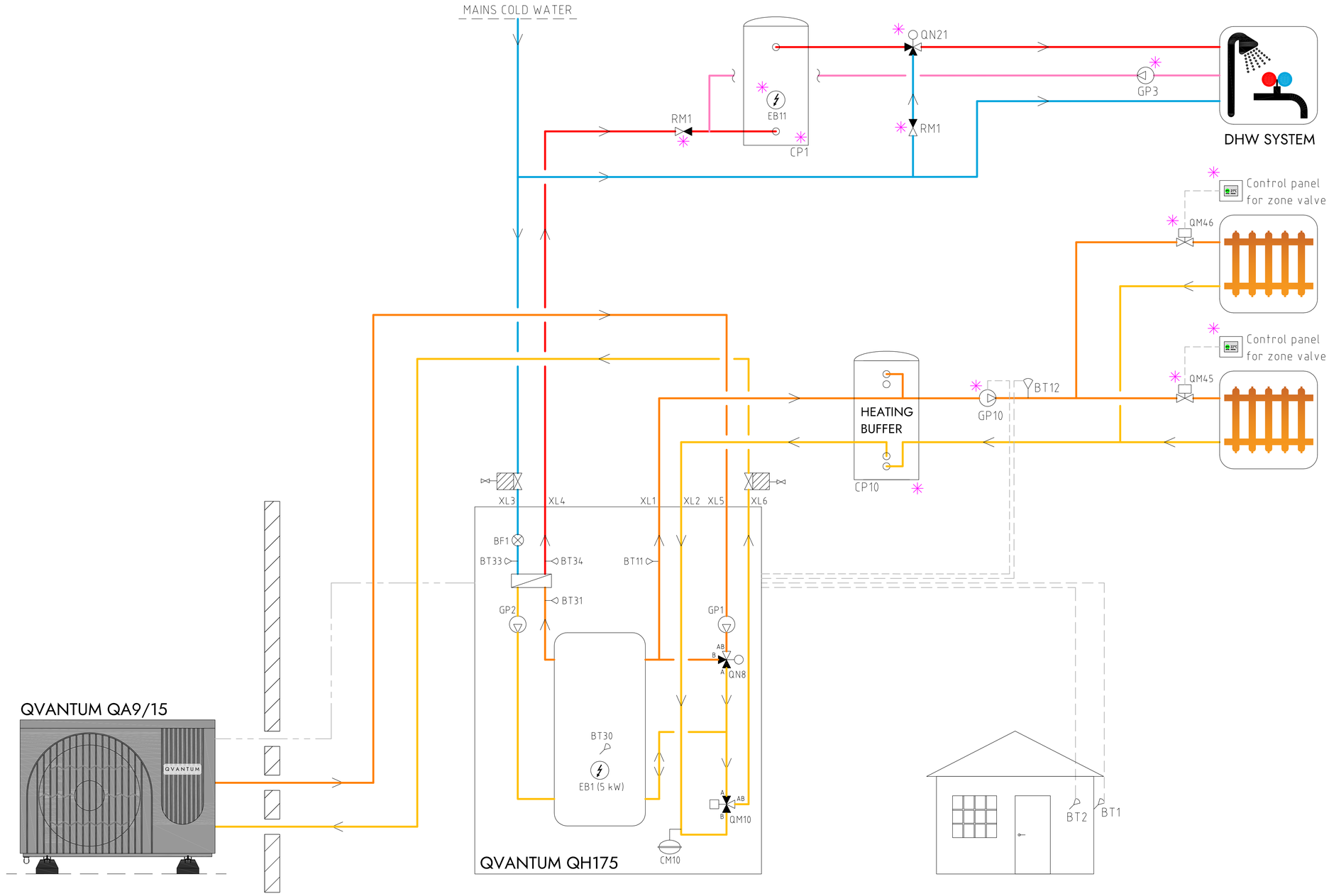
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Information

QA9/15 & QH175, heating & hot water with external hot water tank & hot water circulation, individual zone control



COMPONENT DESIGNATIONS

QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
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RM1	Non return valve hot water
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GP10	External circulation pump, heating
CP10	Heating buffer
QM45	Zone valve
QM46	Zone valve
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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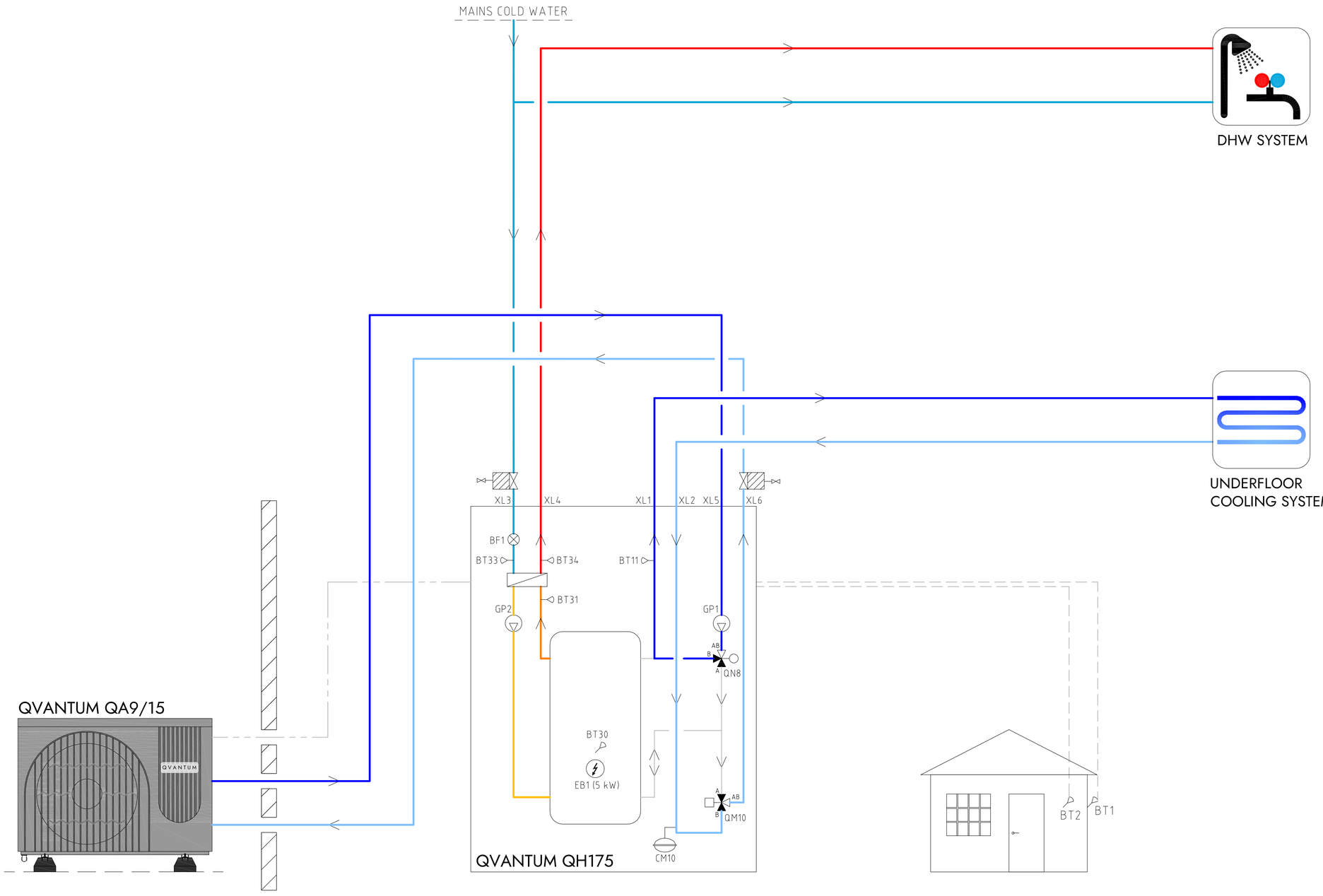
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Information

QA9/15 & QH175, 2-pipe cooling & hot water



COMPONENT DESIGNATIONS

QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
CM10	Expansion vessel
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate HX inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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